SONY

4-205-420-62
420542062

Trinitron Colour Television

Instruction Manual

GB

KV-28FS20U

This Instruction Manual has been produced using Totally chlorine free (TCF) 100% Re-cycled paper to comply with our commitment to the use of environmentally friendly materials in our products.

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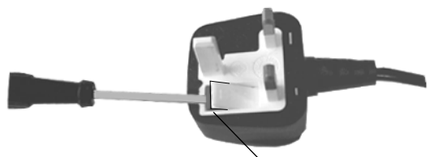
NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.

Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with ⓐ or ⓑ) must be used.

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



How to replace the Fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.

- **IMPORTANT**

  If the plug supplied is not suitable for the socket outlet in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions:

  The wires in this mains lead are coloured in accordance with the following code:

  Blue Neutral

  Brown Live

  As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

  The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green and yellow.

WARNING

- To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be destroyed.
- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

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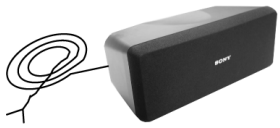
Follow steps 1-6 to:
- Check the accessories supplied
- Insert batteries into your remote control
- Connect the speakers
- Connect the aerial to your TV
- Plug in and switch on the TV
- View programmes on your TV

1. Checking the accessories supplied

Remote control

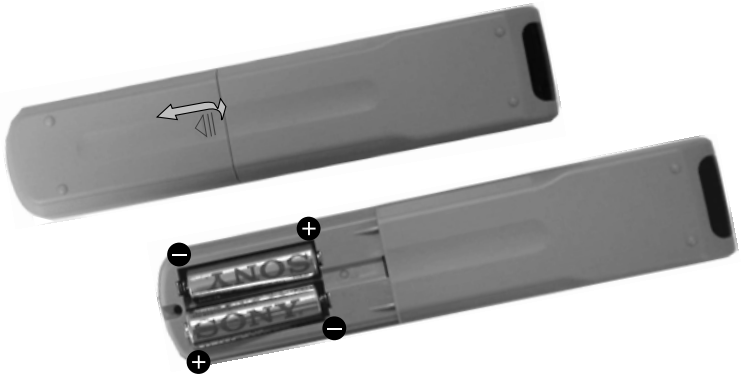
Surround speakers



Centre speaker

Batteries

2. Inserting batteries into the remote control



Always remember to dispose of used batteries in an environmentally friendly way.

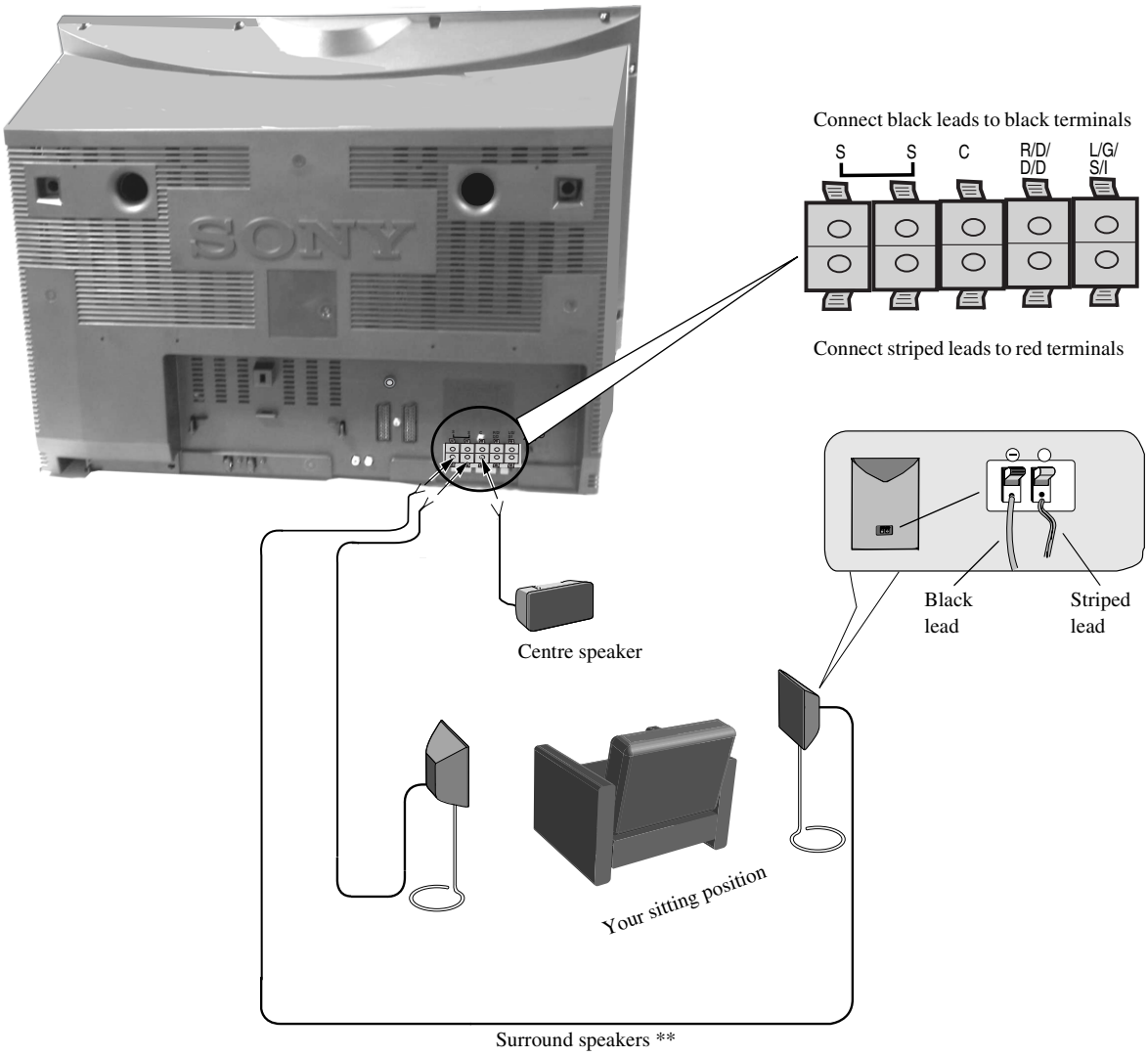
3.1. Connecting the speakers

Before switching on the TV, please connect the speakers to the TV using the leads provided. Connect the striped lead to the red terminals and the black lead to the black terminals.

Dolby* ProLogic Surround normally requires 5 speakers:

Centre Speaker - to anchor the fixed sounds, like dialogues, to the screen.
Left and Right Front Speakers (incorporated in the TV) - for the normal two channel stereo or bilingual broadcasts.
Surround Speakers - for the special effects created by the surround channels.

To connect the speakers provided:

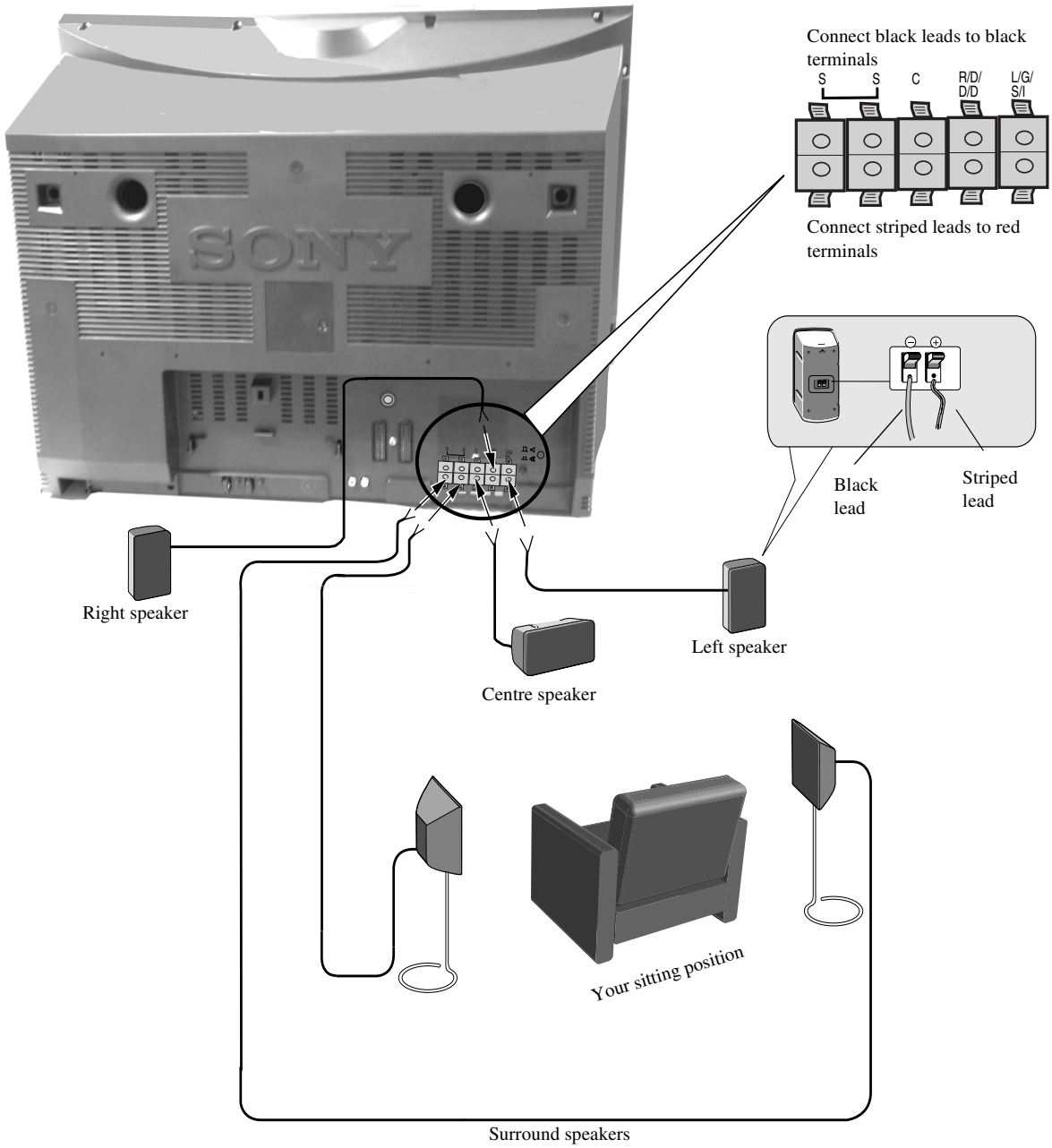


* Manufactured under licence from Dolby Laboratories Licensing Corporation. 'Dolby', 'ProLogic', and the double D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

** For the best sound effects, place the surround speakers one meter above your listening position.

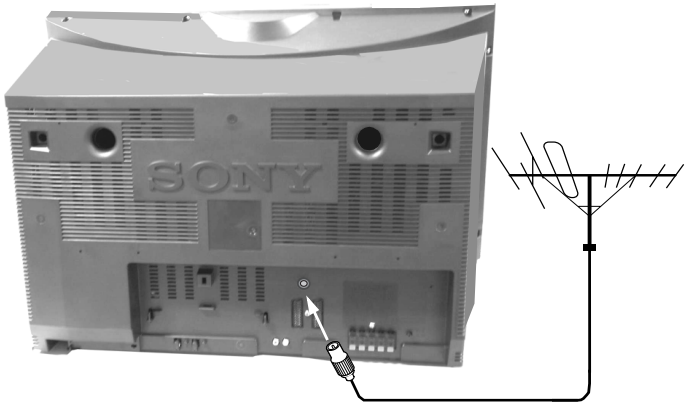
3.2. Connecting the speakers

To connect your own speakers (when using your own speakers, make sure they are at least 4 ohms impedance and magnetically shielded)



Note: When you connect your own external left and right speakers you must mute the internal speakers by pressing in the button marked on the rear of the TV.

4. Connecting the aerial



Connect your existing aerial to the socket marked ⅂⅂ on the rear of the TV.

5. Switching on the TV

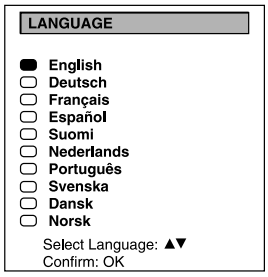
Connect the TV plug to the mains socket (220-240V AC, 50Hz) and switch socket on.

Push in the on/off switch on the front of the TV.

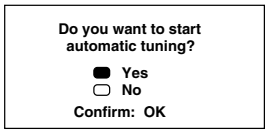
6. Automatically tuning the TV

When you first switch on the TV, the following sequence of menu screens appear on the TV enabling you to 1) choose a language for the TV menu screens, 2) tune channels to the TV, 3) arrange the channels.

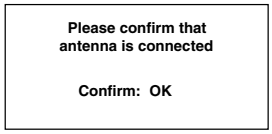
1. When switching on the TV for the first time, the 'LANGUAGE' menu appears automatically on the TV screen enabling you to select in which language you wish to read the TV menu screens. Press the ↑ or ↓ buttons on the remote control to select your chosen language then press the OK button to confirm your selection.

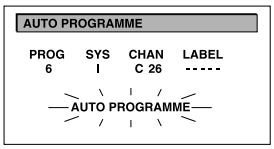


2. The 'automatic tuning' menu appears on the TV screen in your selected language. Press the ↑ or ↓ buttons to select 'YES' then press the OK button to confirm.

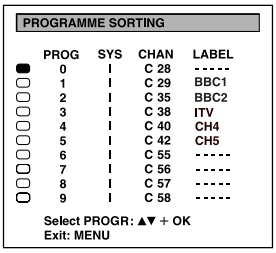


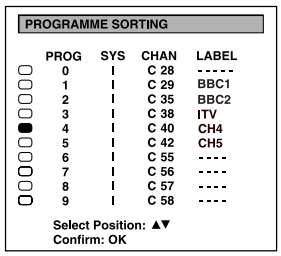
3. Ensure the antenna is connected as instructed, then press the OK button to confirm. The TV starts to automatically search and store all available channels for you. Please be patient and do not press any buttons.





4. When the TV has finished tuning in all available channels, the 'PROGRAMME SORTING' menu appears on the TV screen enabling you to change the order of the channels on your TV.
   If you do not wish to use this option, proceed to step 5.
   If you wish to change the channel order, press the ↑ or ↓ buttons on your remote control to select the channel you want to move, then press the OK button. Press the ↑ or ↓ buttons to select the new programme number position for your selected channel then press the OK button to confirm. The selected channel now moves to its new programme position. Repeat this procedure if you wish to sort the order of other channels on your TV.


PROGRAMME SORTING
PROG SYS CHAN LABEL
0 I C 28 -----
1 I C 29 BBC1
2 I C 35 BBC2
3 I C 38 ITV
4 I C 40 CH4
5 I C 42 CH5
6 I C 55 -----
7 I C 56 -----
8 I C 57 -----
9 I C 58 -----
Select PROGR: ▲▼ + OK
Exit: MENU


PROGRAMME SORTING
PROG SYS CHAN LABEL
0 I C 28 -----
1 I C 29 BBC1
2 I C 35 BBC2
3 I C 38 ITV
4 I C 40 CH4
5 I C 42 CH5
6 I C 55 ----
7 I C 56 ----
8 I C 57 ----
9 I C 58 ----
Select Position: ▲▼
Confirm: OK

5. Press the MENU button to remove the menu from the TV screen.

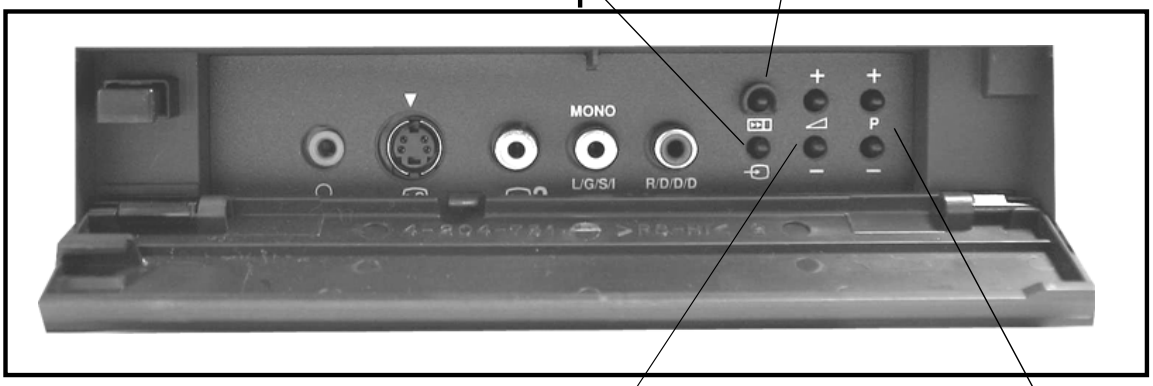
6. Press the PROGR+/- or the numbered buttons on the remote control to view the TV channels.

Overview of the TV set buttons

On/Off switch.
Press to switch TV on and off.

Video input button.
Press to select the input signals from VCR etc.

Auto tune button.
Press to select the automatic tuning function.



Volume control buttons.
Press to increase(+)/decrease(-) volume.

Programme Up or Down buttons.
Press to increase(+)/decrease(-) channels.

Overview of the remote control buttons

To mute sound
Press to mute TV sound. Press again to restore the sound.

To reveal on screen information
Press to reveal all on-screen indications. Press again to cancel. In teletext mode, press to reveal concealed information (e.g. answers to a quiz) then press again to cancel.

To select channels
Press the numbered buttons to select channels.

For double digit programme numbers, e.g.23, press -/-- first, then the buttons 2 and 3. If you enter an incorrect first digit, select -/-- button again to enter the programme number of your choice.

To return to TV mode
Press to return to normal operation from teletext mode or standby mode.

To select Teletext
Press to switch on Teletext.

To display picture menu
Press to change the picture settings. Press the OK button to remove the display.

To display sound menu
Press to change the sound settings. Press the OK button to remove the display.

To adjust TV volume
Press to adjust the volume of the TV.

To temporarily switch off TV
Press to temporarily switch off TV. Press again to switch on from standby mode. To save energy, we recommend switching off completely when TV is not in use.
NOTE: After 15-30 minutes without a TV signal and without any button being pressed, the TV switches automatically into standby mode.

To select input signal or freeze teletext
Press to select inputs from the TV sockets (see Using Optional Equipment section). In teletext mode, press to freeze the displayed page. Press again to cancel.

To return to previous channel
Press to return to the previous channel you were watching. **Note:** This can be done only if you watched the previous channel for at least 5 seconds.

To display the menu
Press if you wish to use the TV menu system. Press again to remove the menu from the TV screen.

To select menu items
Use these buttons and the OK button to select the options available in the menu system of this TV.

This button has no function

To change screen format
Press to change the size of the screen.

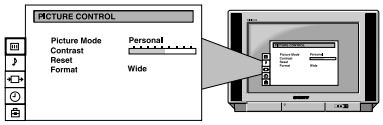
See Teletext section of manual for details.

To select channels
Press to select channels.

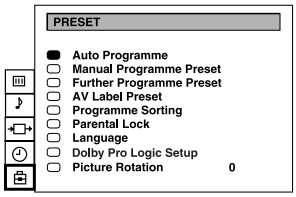
Choosing a language for the TV menu screens

The TV consists of a menu system which can appear on screen in a variety of languages. Use the following feature to select the language that best suits you.

1. Press the MENU button on the remote control to display the menu on the TV screen.



2. Press the ↑ or ↓ buttons to select the 🧰 symbol on the menu screen then press the → button to enter the ‘PRESET’ menu.



3. Press the ↑ or ↓ buttons to select ‘Language’ on the menu screen then press the → button to enter the ‘LANGUAGE’ menu.

4. Press the ↑ or ↓ buttons to select your chosen language.

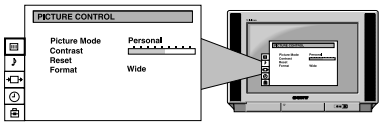
5. Press the OK button to confirm your selection.

6. Press the MENU button to remove the display from the TV screen.

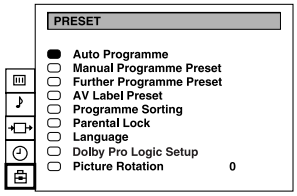
Automatically tuning the TV

You have already tuned in all available channels using the ‘Automatically tuning the TV’ section at the start of this manual. If you need to repeat the tuning procedure however, follow the instructions below and the TV automatically searches and stores all available channels for you.

1. Press the MENU button on the remote control to display the menu on the TV screen.



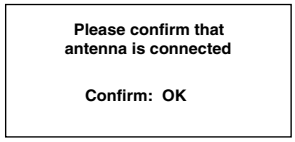
2. Press the ▲ or ▼ buttons to select the 🧰 symbol on the menu screen then press the ➡ button to enter the ‘PRESET” menu.



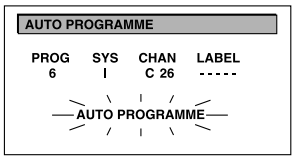
3. Press the ▲ or ▼ buttons to select ‘Auto Programme’ then press the ➡ button to display the autotune menu.

4. Press the ▲ or ▼ buttons to select ‘YES’ then press the OK button to confirm.

5. Ensure the antenna is connected as instructed, then press the OK button to confirm. The TV starts to automatically search and store all available channels for you. Please be patient and do not press any buttons.



6. When the automatic tuning procedure is complete, the menu disappears from the TV screen. Press the PROGR+/- or the numbered buttons on the remote control to view the TV channels.

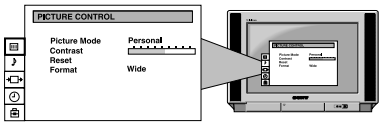


Note: Press the MENU button if you wish to stop the automatic tuning procedure.

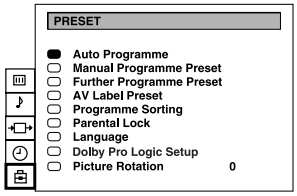
Re-arranging the TV channels

After tuning the TV, you can use this feature to change the channel order.

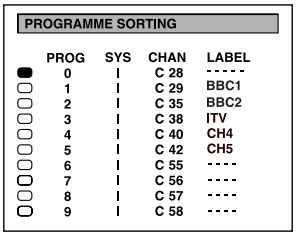
1. Press the MENU button on the remote control to display the menu on the TV screen.



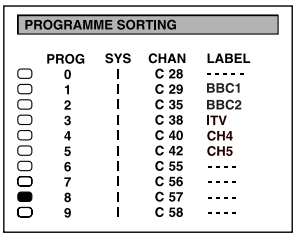
2. Press the ↑ or ↓ buttons to select the 🧰 symbol on the menu screen then press the → button to enter the 'PRESET' menu.



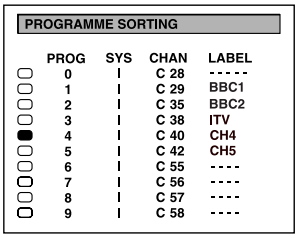
3. Press the ↓ button to select 'Programme Sorting' then press the → button to enter the 'PROGRAMME SORTING' menu.



4. Press the ↑ or ↓ buttons to select the channel you want to move then press the OK button to confirm.



5. Press the ↑ or ↓ buttons to select the new programme position (e.g. PROG 4) for your selected channel then press the OK button to confirm. The selected channel now moves to its new programme position.



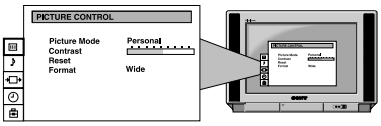
6. Repeat steps 4 and 5 if you wish to sort other channels.

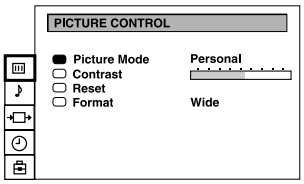
7. Press the MENU button to remove the menu from the TV screen.

Adjusting the picture

Although the picture is adjusted at the factory, you can modify it to suit your own taste.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ↑ or ↓ buttons on the remote control to select the symbol on the menu screen then press the → button to enter the 'PICTURE CONTROL' menu.
3. Press the ↑ or ↓ buttons to select the item on the screen you wish to adjust then press the → button to confirm. For a description of the menu items and their effects, see the table below.
4. If you selected 'Picture Mode' or 'Format' in step 3, press the ↑ or ↓ buttons to select the item on the screen you wish to adjust then press the → button to confirm.
5. Press the → or ← buttons to adjust your selected item.
6. As soon as you have adjusted the item, press the OK button to store the new setting.
7. If you selected 'Picture Mode' or 'Format' in step 3, press the ← button to return to the 'PICTURE CONTROL' menu.
8. Repeat steps 3-7 to adjust the other items.
9. Press the MENU button to remove the menu from the TV screen.





Picture Mode

Picture Mode →	Personal (for individual settings)	
	Movie (for films)	
←	Live (for live broadcasts)	
Brightness*		
Colour*		
Sharpness*		
Hue**		

Contrast

Reset

Resets picture to factory preset levels

Format

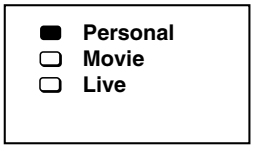
Format	(refer to page 15 for details)	
Scroll		
Auto 16:9 →	Off	← On

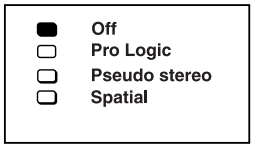
*Only if you select 'Personal' in 'Picture Mode'.
** Available for NTSC colour system only.

Changing picture and sound modes quickly

You can quickly change the Picture Mode or the Sound Mode without entering the 'PICTURE CONTROL' or the 'SOUND CONTROL' menu screens.

1. Press the ☼ symbol on the remote control for picture modes or the ♪ symbol for sound modes.
2. Press the ↑ or ↓ buttons to select the desired mode.
3. Press the OK button to remove the display from the TV screen.

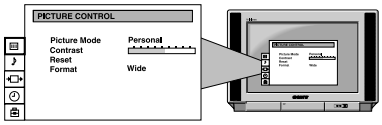


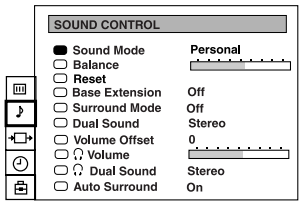


Adjusting the sound

Although the sound is adjusted at the factory, you can modify it to suit your own taste.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ↑ or ↓ buttons on the remote control to select the ♪ symbol on the menu screen then press the → button to enter the 'SOUND CONTROL' menu.
3. Press the ↑ or ↓ buttons to select the item on the screen you wish to adjust then press the → button to confirm. For a description of the menu items and their effects, see the table below.
4. If you select 'Sound Mode' or 'Surround Mode' in step 3, press the ↑ or ↓ buttons to select the item on the screen you wish to adjust then press the → button to confirm.
5. Press the → or ← buttons to adjust your selected item.
6. As soon as you have adjusted the item, press the OK button to store the new setting.
7. If you selected 'Sound Mode' or 'Surround Mode' in step 3, press the ← button to return to the 'SOUND CONTROL' menu.
8. Repeat steps 3-7 to adjust the other items.
9. Press the MENU button to remove the menu from the TV screen.





Sound Mode

→ Personal
Rock
Jazz
← Pop

In 'Personal' mode, Treble and Bass can be adjusted

Balance

Only available when 'Surround Mode' is set to 'Off'

Reset

Resets sound to factory preset levels

Bass Extension

Boosts bass by a fixed amount

Surround Mode

Choose from the special sound effects:
Pro Logic--> Pseudo Stereo--> Spatial--> off

Dual Sound

Stereo ← → Mono (for a stereo broadcast)
A for channel 1 ← → B for channel 2 (for a bilingual broadcast)

Volume Offset

← The channel volume level can be → adjusted over a range of -12 to +12.

Headphones
🎧 Volume
🎧 Dual Sound

Stereo ← → Mono (for a stereo broadcast)
A for channel 1 ← → B for channel 2 (for a bilingual broadcast)

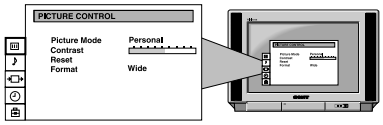
Auto Surround

Set to 'On' to automatically select Pro Logic Surround sound when transmitted.

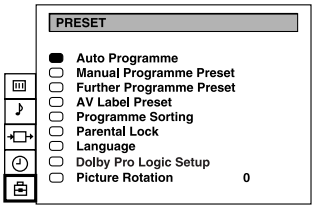
Setting up Dolby Pro Logic

Before listening to Dolby Pro Logic encoded programmes, you can adapt the Dolby features to suit your own taste. Normally this is only required when you install the TV and the speakers, or when changing the speaker positions.

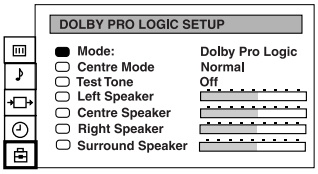
1. Press the MENU button on the remote control to display the menu on the TV screen.



2. Press the ↑ or ↓ buttons to select the 🧰 symbol on the menu screen then press the → button to enter the 'PRESET' menu.



3. Press the ↑ or ↓ buttons to select 'Dolby Pro Logic Setup' on the menu screen then press the → button to enter the 'DOLBY PRO LOGIC SETUP' menu.



4. Press the ↑ or ↓ buttons to select 'Mode', then press the → button to enter. Press the → or ← buttons to select one of the following modes then press the OK button to store the chosen mode:
   Dolby Pro Logic: all 5 speakers are activated
   Dolby 3 stereo: surround speakers are not used

5. Press the ↓ button to select 'Centre Mode', then push the → button to enter. Press the → or ← buttons to select one of the following modes then press the OK button to store the chosen mode:
   Normal: all 5 speakers are activated
   Wide: wider bandwidth for centre speaker
   Phantom: centre speaker is not used

6. Press the ↓ button to select 'Test Tone' then push the → button to enter. Press the → or ← buttons to select 'On', then press the OK button.
   The test tone will cycle through all the speakers.

7. Press the ↓ button to select the 'Left Speaker', then press the → button to confirm. The tone remains at the left speaker.

8. Press the → or ← buttons to alter the sound level, then press the OK button.

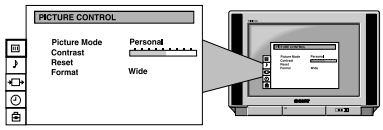
9. Repeat steps 7 and 8 to select and adjust the 'Centre', 'Right', and 'Surround' speakers, so that the sound output from all speakers are balanced in relation to your sitting position.

10. Press the MENU button to remove the display from the TV screen.

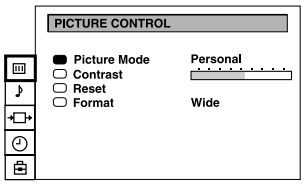
Changing the screen mode

Using this Screen Mode feature you can change the aspect ratio of the screen.

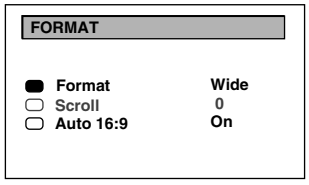
1. Press the MENU button on the remote control to display the menu on the TV screen.



2. Press the ↑ or ↓ buttons on the remote control to select the symbol on the menu screen then press the → button to enter the 'PICTURE CONTROL' menu.



3. Press the ↑ or ↓ buttons to select 'Format' on the menu screen then press the → button to enter the 'FORMAT' menu.



4. **Format**
   Press the ↑ or ↓ buttons to select 'Format' then press the → button to enter. Press the → or ← buttons repeatedly to select one of the following modes then press the OK button to store the chosen mode:

- Smart - imitation of wide screen effect (16:9) for 4:3 broadcasts
- Wide - for 16:9 broadcasts
- Zoom - imitation of wide screen effect (16:9) for movies broadcast in cinemascopic format
- 14:9 - compromise between 4:3 and 16:9 format - for conventional 14:9 picture
- 4:3 - conventional 4:3 picture

5. **Scroll** (Applies to Zoom, 14:9 or Smart format only)
   Press the ↑ or ↓ buttons to select 'Scroll'. You can use 'Scroll' to move the screen up or downwards in order to see the cut-off parts (e.g. to read subtitles). Press the → button to highlight the present value then press the → or ← buttons to adjust the value over a range of -5 to +5. Press the OK button to store.

6. **Auto 16:9**
   Press the ↑ or ↓ buttons to select 'Auto 16:9' then press the → button to enter. Press the → or ← buttons to select 'On' if you wish the TV set to switch automatically to Wide format if a 16:9 broadcast is detected or 'Off' to retain the format selected in step 4. Press the OK button to store.

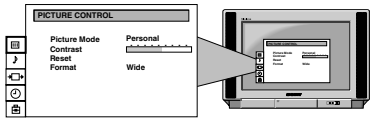
7. Press the MENU button to remove the menu from the TV screen.

Note: You can change the picture format quickly without having to enter the menu system. Simply press the button repeatedly until the picture is displayed in the format you desire.

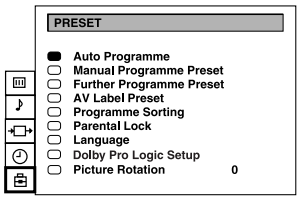
Using the further programme preset feature

With this feature you can a) manually fine-tune the TV to obtain a better picture reception if the picture is distorted or b) preset the AV output to the programme positions of channels with scrambled signals (e.g. from a pay TV decoder). In this way a connected VCR records the unscrambled signal.

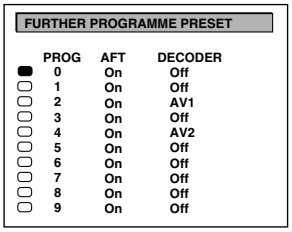
1. Press the MENU button on the remote control to display the menu on the TV screen.



2. Press the ↑ or ↓ buttons to select the symbol on the menu screen then press the → button to enter the 'PRESET' menu.



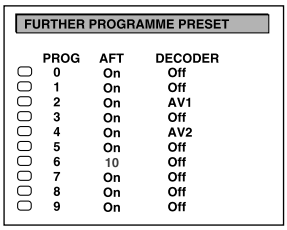
3. Press the ↑ or ↓ buttons to select 'Further Programme Preset' then press the → button to enter the 'FURTHER PROGRAMME PRESET' menu.



4. Press the ↑ or ↓ buttons to select the relevant programme number then press the → button repeatedly to select a) AFT or b) DECODER. The selected item changes colour.

5. a) **AFT**
   Press the ↑ or ↓ buttons to fine tune the channel frequency over a range of -15 to +15. Press the OK button to confirm. Repeat steps 4 and 5a if you wish to fine tune other channels.

   b) **DECODER**
   Press the ↑ or ↓ buttons to select AV1 or AV2 for the selected programme position and press the OK button to confirm.
   Ensure your selection represents the AV socket that your decoder is connected to.

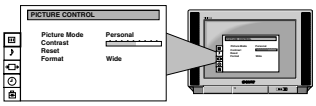


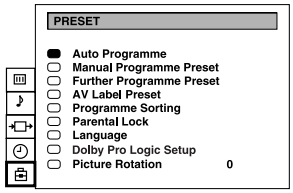
6. Press the MENU button to remove the menu from the TV screen.

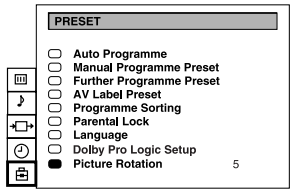
Adjusting the picture rotation

If, due to the earth's magnetic field, the picture slants, you can use this feature to readjust the picture.

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ↑ or ↓ buttons to select the symbol on the menu screen then press the → button to enter the 'PRESET' menu.
3. Press the ↑ or ↓ buttons to select 'Picture Rotation' then press the → button to highlight the 0 (zero) on the right of the menu.
4. Press the → or ← buttons to adjust the picture rotation. The adjusting range is -5 to +5.
5. Press the OK button to store the new range.
6. Press the MENU button to remove the menu from the TV screen.



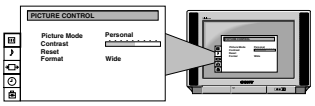


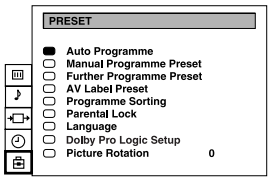


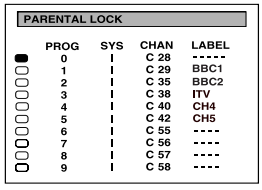
Using the parental lock

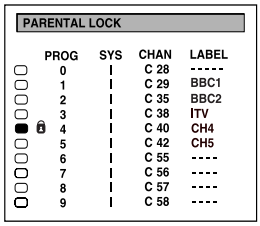
This feature enables you to prevent undesirable broadcasts appearing on the TV

1. Press the MENU button on the remote control to display the menu on the TV screen.
2. Press the ↑ or ↓ buttons to select the symbol on the menu screen then press the → button to enter the 'PRESET' menu.
3. Press the ↑ or ↓ buttons to select 'Parental Lock' then press the → button to enter the 'PARENTAL LOCK' menu.
4. Press the ↑ or ↓ buttons to select the channel you wish to block then press the OK button to confirm your selection. The symbol appears before the programme position to indicate this channel is now blocked. To unblock the channel, press the OK button again. The symbol disappears.
5. Repeat step 4 if you wish to block other channels.
6. Press the MENU button to remove the menu from the TV screen.





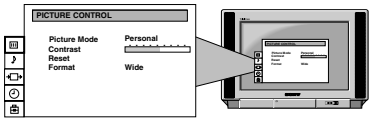




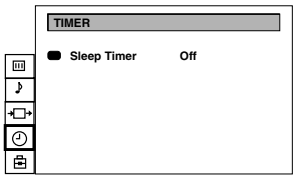
Using the sleep timer

The TV can be set to switch automatically to standby mode after a length of time chosen by you. You may set the time in 30 minute steps up to 4 hours.

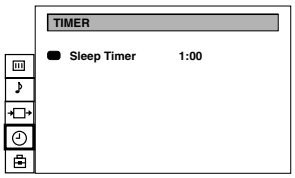
1. Press the MENU button on the remote control to display the menu on the TV screen.



2. Press the ↑ or ↓ buttons on the remote control to select the ◴ symbol on the TV screen then press the → button twice.



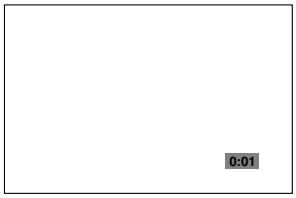
3. Press the → or ← buttons repeatedly until the required amount of time delay appears on the screen.



4. Once the time delay has been selected, press the OK button to enter.

5. Press the MENU button to remove the menu from the TV screen.

   One minute before standby, the display shown appears on the screen.



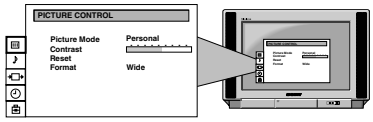
Notes: When watching TV, press the ⓘ button if you wish to see the time remaining.

To return to normal operation from standby mode, press the I/⏻ button.

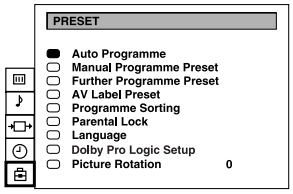
Manually tuning the TV

You have already tuned the TV automatically using the instructions at the start of this manual. You can however carry out this operation manually, adding channels to the TV, one at a time.

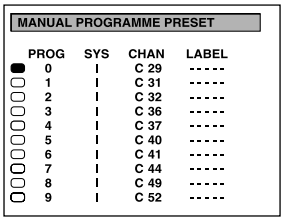
1. Press the MENU button on the remote control to display the menu on the TV screen.



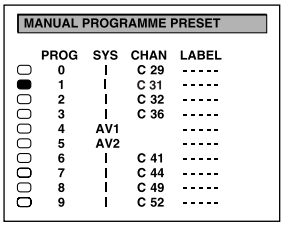
2. Press the ↑ or ↓ buttons to select the symbol on the TV screen then press the → button to enter the PRESET menu.



3. Press the ↑ or ↓ buttons to select 'Manual Programme Preset' on the menu screen then press the → button to enter the 'MANUAL PROGRAMME PRESET' menu.



4. Press the ↑ or ↓ buttons to select a programme number for your channel (e.g. PROGR 1 for BBC1) then press the → button to enter.



5. Press the ↑ or ↓ buttons to select the TV broadcast system or a video input source (AV1, AV2...) then press the → button to confirm.

6. Select the first number digit of 'CHAN' (channel) then the second number digit of 'CHAN' with the number buttons on the remote control
   or
   Press the ↑ or ↓ buttons to search for the next available channel.

7. If you do not wish to store this channel on the programme number you selected, press the ↑ or ↓ buttons on the remote control to continue searching for the desired channel.

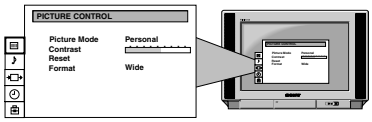
8. If this is the channel you wish to store, press the OK button.

9. Repeat steps 4-8 if you wish to store more channels, then press the MENU button to remove the menu from the TV screen.

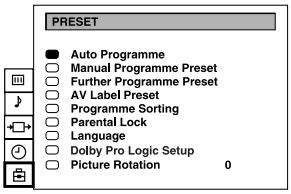
Skipping programme positions

This function enables you to skip unused programme positions when selecting them with the PROGR+/- buttons. However, by using the number buttons you can still select the skipped programme position.

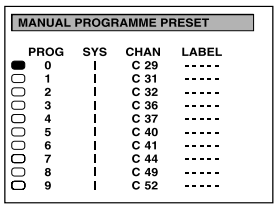
1. Press the MENU button on the remote control to display the menu on the TV screen.



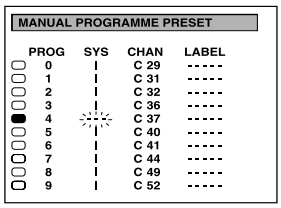
2. Press the ↑ or ↓ buttons to select the symbol on the menu screen then press the → button to enter the 'PRESET' menu.



3. Press the ↑ or ↓ buttons to select 'Manual Programme Preset' then press the → button to enter the 'MANUAL PROGRAMME PRESET' menu.



4. Press the ↑ or ↓ buttons to select the programme position you want to skip then press the → button to enter the 'SYS' column.



5. Press the ↑ or ↓ buttons to select '---' then press the OK button to store.

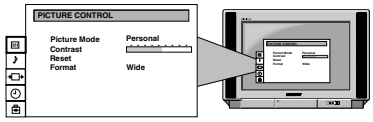
6. Repeat steps 4 and 5 to skip other programme positions.

7. Press the MENU button to remove the menu from the TV screen.

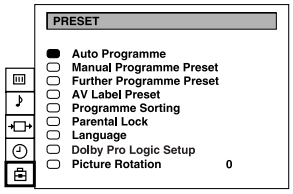
Naming a channel

Names for channels are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).

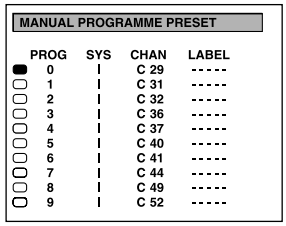
1. Press the MENU button on the remote control to display the menu on the TV screen.



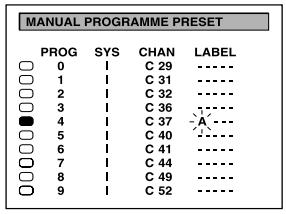
2. Press the ↑ or ↓ buttons to select the symbol on the menu screen then press the → button to enter the 'PRESET' menu.



3. Press the ↑ or ↓ buttons to select 'Manual Programme Preset' then press the → button to enter the 'MANUAL PROGRAMME PRESET' menu.



4. Press the ↑ or ↓ buttons to select the channel you wish to name.



5. Press the → button repeatedly until the first element of the 'LABEL' column is highlighted.

6. Press the ↑ or ↓ buttons to select a letter or number (select '-' for a blank) then press the → button to confirm. Select the other four characters in the same way.

7. After selecting all the characters, press the OK button.

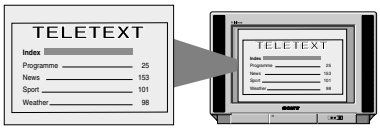
8. Repeat steps 4 to 7 if you wish to label other channels.

9. Press the MENU button to remove the menu from the TV screen.

Teletext

Teletext is an information service transmitted by most TV stations.

Switching Teletext on and off



1. When viewing channels, press a number button on the remote control to select the channel which carries the teletext service you wish to receive.

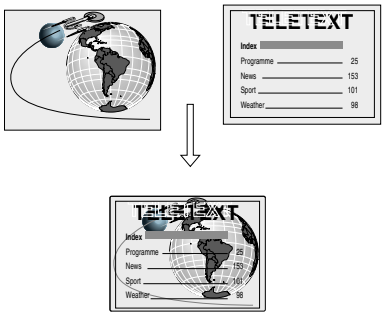
2. Press the ☰ button on the remote control to switch on teletext.

3. Input the three digits of the page number you require using the numbered buttons on the remote control. If you make a mistake, type in any three digits to complete the number then re-enter the correct page number.

4. Press the ▢ button to switch off teletext.

Note: Teletext errors may occur if the broadcasting signals are weak.

Using Other Teletext Functions



To superimpose Teletext on to the TV

Press the ☰ button on the remote control once in teletext mode or twice in TV mode to superimpose teletext on to the TV screen. Press the ☰ button once more to cancel.

To move to the next or preceding page

Press the ▽ or △ buttons to select the previous or next page.

To freeze a Teletext page

Press the ⏸ button to freeze the page. Press again to cancel the freeze.

Revealing concealed information (eg:answers to a quiz).

Press the ? button to reveal information. Press again to conceal the information.

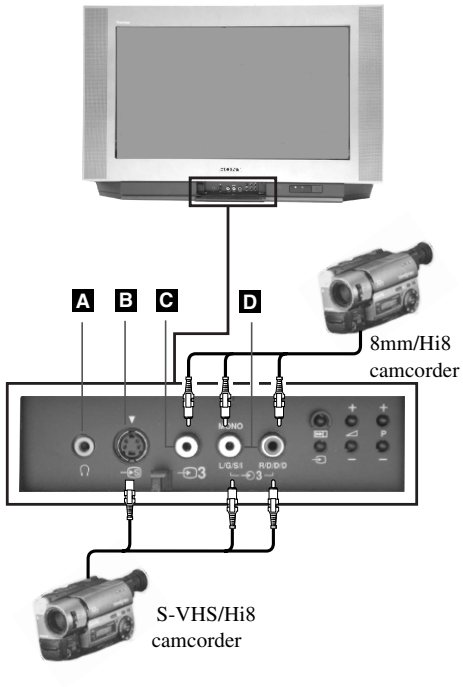
Using colour buttons to access pages (Fastext)

(only available if the TV station broadcasts Fastext signals)
When the colour coded menu appears at the bottom of a page, press the colour button (green, red, yellow or blue) on the control to access the corresponding page.

Connecting equipment to the TV

Using the following instructions, you can connect a wide range of optional equipment to your TV.

Connecting equipment to the TV



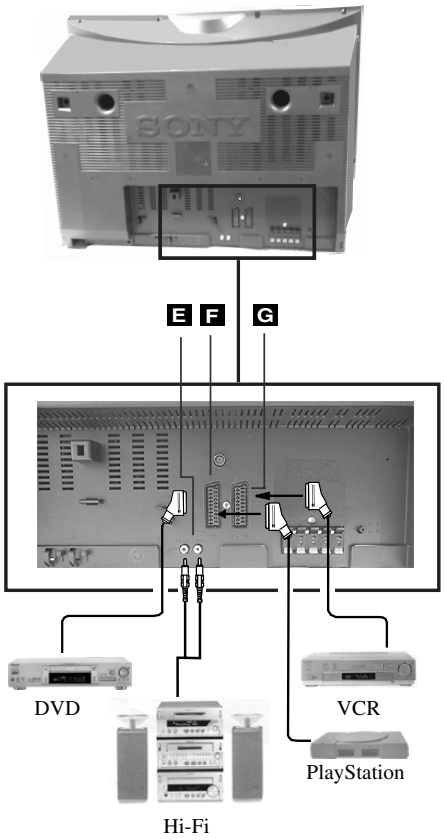
1. Connect your equipment to the correct TV socket as shown.

2. Press the ⊖ button repeatedly on the remote control until the correct input symbol for your equipment appears on the TV screen:

Symbol	Input signals
⊖1	• Audio/video input signal through the scart connector **F**
⊖···	• RGB input signal through the scart connector **F**
⊖2	• Audio/video input signal through the scart connector **G**
⊖S2	• S video input signal through the scart connector **G**
⊖3	• Video input signal through the phono socket **C** and audio input signal through sockets **D**
⊖S3	• S video input signal through the socket **B** and audio input signal through sockets **D**

3. Switch on the connected equipment.

4. To return to the normal TV picture, press the ▭ button on the remote control.



Note: To avoid picture distortion, do not connect equipment to the **B** and **C** sockets at the same time.

Additional information when connecting equipment

Connecting a VCR

We recommend you connect your VCR to the **G** socket using a scart lead. If you do not have a scart lead, use the 'Manually Tuning the TV' section of this instruction manual to tune in the VCR signal to TV programme number'0'.

Connecting headphones

Plug in your headphones to the **A** socket on the front of the TV set.

Connecting to external audio equipment

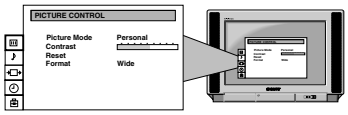
Plug in your hi-fi equipment to the **E** sockets on the rear of the TV if you wish to amplify the audio output from the TV. The output level from the **E** sockets can be varied by adjusting the volume of the headphones (refer to the 'Adjusting the sound' section of this manual).

For mono equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the ⊖3 input signal using the instructions on this page. Finally, refer to the 'Adjusting the sound' section of this manual and select 'A' on the sound menu screen.

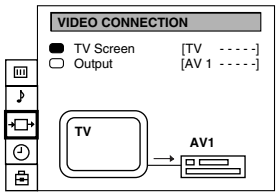
Connecting equipment to the TV

Selecting the output source for the scart socket G



1. Press the MENU button on the remote control to display the menu on the TV screen.

2. Press the ↑ or ↓ buttons to select the →□→ symbol on the menu screen then press the → button to enter the 'VIDEO CONNECTION' menu screen.



3. Press the ↑ or ↓ buttons to highlight 'TV Screen' (input source for the TV screen) or 'Output' (output source for →2/S2 socket) then press the → button to confirm.

4. Press the → or ← buttons to select the desired source (see below) then press the OK button to confirm:

TV Screen	TV, AV1, RGB, AV2, YC2, AV3, YC3
Output	TV, AV1, AV2, YC2, AV3, YC3, AUTO

Note: When Auto is selected as the output source, then the signal being viewed on the TV will also be output to AV2.

5. Press the MENU button to remove the menu from the TV screen.

Smartlink

Smartlink is a direct link between your TV set and VCR.

For Smartlink you need:
- a VCR which supports Smartlink, NexTView Link or Megalogic.
- a fully-wired 21-pin scart cable to connect your VCR to scart connector →2/S2.

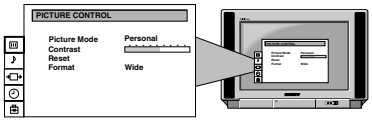
The features of Smartlink are:
- tuning information such as the channel overview are downloaded from the TV set to the VCR.
- direct TV recording: While watching TV you need to press just one button on the VCR to record this programme.

For more information on Smartlink please refer to your VCR instruction manual.

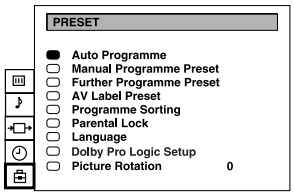
Using the AV Label Preset feature

This function enables you to designate a name to the optional equipment you have connected to the sockets of this TV. This name can be up to 5 characters (letters or numbers) and will appear on screen whenever the equipment is selected for use.

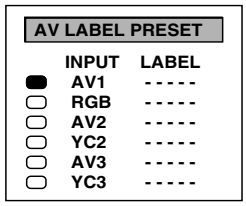
1. Press the MENU button on the remote control to display the menu on the TV screen.



2. Press the ↑ or ↓ buttons to select the symbol on the menu screen then press the → button to enter the 'PRESET' menu.

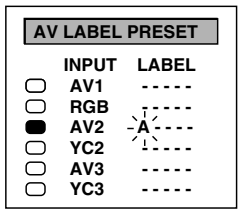


3. Press the ↑ or ↓ buttons to select 'AV Label Preset' then press the → button to enter the 'AV LABEL PRESET' menu.



4. Press the ↑ or ↓ buttons to select the input source you wish to name (e.g. AV2) then press the → button to highlight the first element of the 'LABEL' column.

5. Press the ↑ or ↓ buttons to select a letter or number (select '-' for a blank) then press the → button to confirm. Select the other four characters in the same way.



6. After selecting all the characters, press the OK button.

7. Repeat steps 4 to 6 if you wish to label other input sources.

8. Press the MENU button to remove the menu from the TV screen.

Specifications

TV system
I

Colour system
PAL
NTSC 3.58, 4.43 (only Video In)

Channel coverage
UHF:B21-B69

Picture tube
FD Trinitron WIDE
Approx. 71cm (28inches) (Approx. 66cm picture measured diagonally), 102° deflection

Rear Terminals

1	21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
2 / S2	21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, Monitor audio/video output.
	Audio outputs - phono jacks

Front Terminals

3	Video input -phono jacks
3	Audio inputs - phono jacks
S	S video input - 4 pin DIN
	Headphones jack - minijack stereo

Sound output

Left/Right:	2x20W (music power)
Sub woofer:	20W (music power)
Centre	1x10W (music power)
Surround	2x5W (music power)

Power consumption
123W

Dimensions (wxhxd)
Approx. 761x496x525mm

Weight
Approx. 44.0kg

Accessories supplied
RM-887 remote control (1)
IEC designated size AA battery (2)
Centre speaker (1)
Surround speaker (2)
Surround cable (2)
Centre speaker cable (1)

Other features
Teletext, Smartlink

Design and specifications are subject to change without notice.

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	• Plug the TV in. • Press the ⏻ button on the front of the TV. • If the ⏻ indicator is on press the I/⏻ button or a numbered button on the remote control. • Check the aerial connection. • Turn the TV off for 3 or 4 seconds and then turn it on again using the ⏻ button on the front of the TV.
Poor or no picture (screen is dark), but good sound.	• Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels. • From the Picture Adjustment display select Reset to return to the factory settings.
Poor picture quality when watching an RGB video source.	• Press the ⏎ button repeatedly on the remote control until the RGB symbol ⊸▭ is displayed on the screen.
Good picture, no sound	• Press the + button on the remote control. • If 🔇 is displayed on the screen, press the 🔇 button on the remote control.
No colour on colour programmes	• Using the MENU system, select the Picture Adjustment display and adjust the colour setting. • From the Picture Adjustment display select Reset to return to the factory settings.
Distorted picture when changing programmes or selecting Teletext	• Turn off any equipment connected to the scart connectors on the rear of the TV.
Remote control does not function	• Replace the batteries.
The standby indicator ⏻ on the TV flashes	• Contact your nearest Sony service centre.
No Sound	• Check that the button marked 🔇 on the rear of the TV is not pressed in.

- **If you continue to have these problems, have your TV serviced by qualified personnel.**
- **NEVER open the casing yourself.**